

Finding Partners for Unwanted Medicine Collection Events

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Michigan Department of
Environmental Quality



You are not alone

- Law Enforcement Agencies
- Health Departments
- Environmental Agencies, Federal, State and Local
- Pharmacies
- Wastewater Treatment Plants
- Medical Facilities
- Schools
- Associations
- Recycling and Household Hazardous Waste Programs, and
- More

Superior Watershed Partnership 2007 Pharmaceutical Collections representing over half the Upper Peninsula

- Participating Earth Keepers Faiths-over 140 congregations:
 - Catholic
 - Methodist
 - Episcopalian
 - Unitarian
 - Bahai
 - Jewish
 - Lutheran
 - Presbyterian
 - Buddhist
 - Quaker
- U.P. Native American Communities
- 50 Upper Peninsula Communities
- 25 Regional Pharmacists
- 19 Law Enforcement Officials
- Cedar Tree Institute, religion-based non-profit

2007 CLEAN SWEEP PHARMACEUTICAL COLLECTION SITES

IN THE UPPER PENINSULA OF MICHIGAN







Superior Watershed Partnership Earth Day 2007 Pharmaceutical Collection Results:

- 19 collection sites in communities across the Upper Peninsula.
 - 400 volunteers
 - About 2000 participants
 - Pharmacists and law enforcement at each site
- Over one ton of pharmaceuticals collected in three hours.
- Controlled substance street value of over \$500,000

Milwaukee, Wisconsin

- September 2006 and June 2007 events
- Milwaukee Brewers' Miller Park baseball stadium parking lot
- Pharmacist and law enforcement time donated



Milwaukee Event Partners

- Milwaukee Metropolitan Sewerage District, Household Hazardous Waste Program
- Milwaukee Police Dept.
- Aurora Pharmacy
- Milwaukee Brewers baseball team
- University of Wisconsin
- Veolia Environmental Services
- City of Milwaukee Health Department

La Crosse County Medication Collection Program

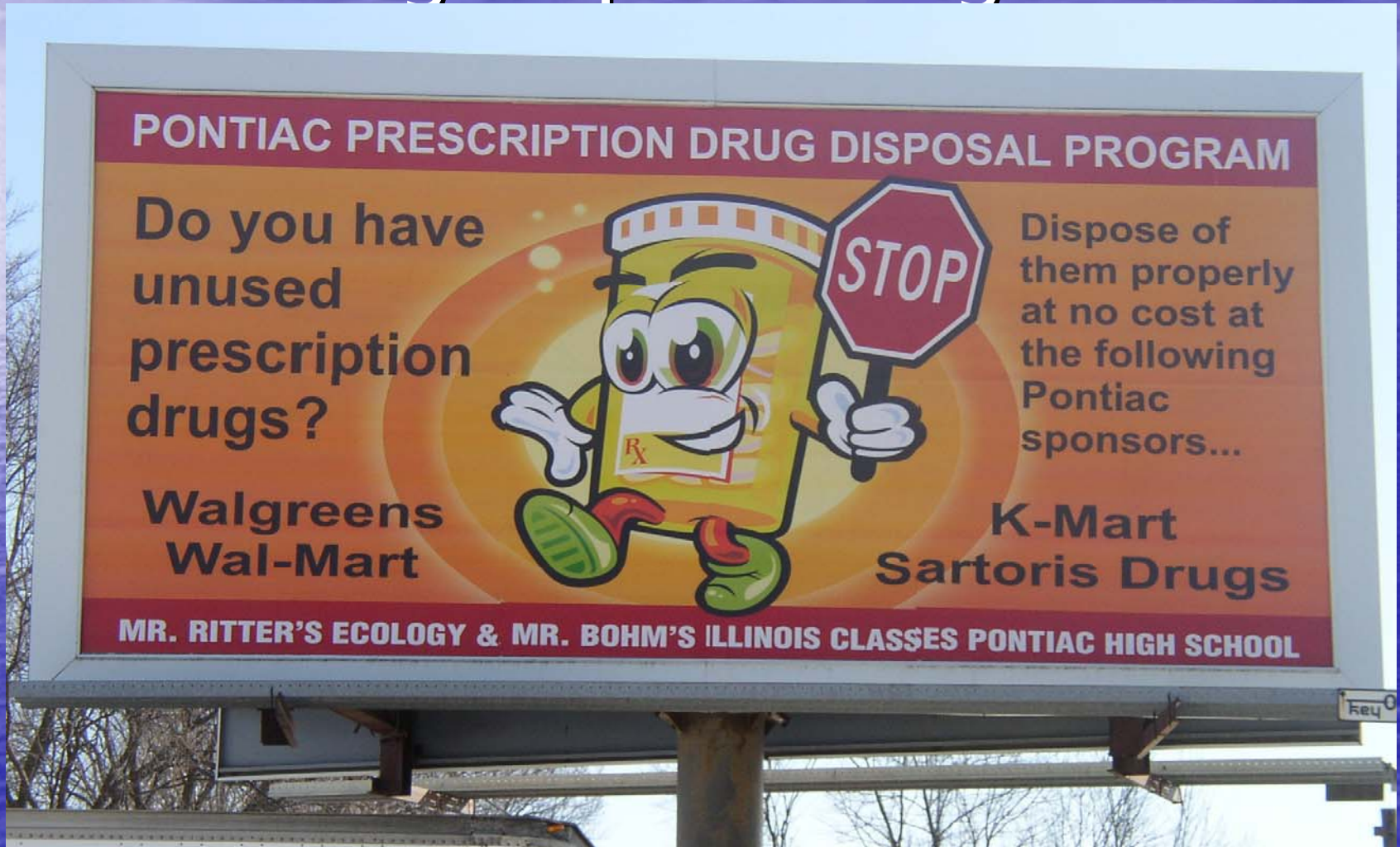
- Continuous and Permanent.
- Provides service to 30 counties in 3 states
- Mobile and drop off. Looking at mail-back options
- Deputized staff
- Very Small Quantity Generators such as nursing homes and public health departments can participate
- Tracking Method: Medication Wt, Municipality, Business, etc.
- Collect Tablets/Capsules/Liquids, Topicals, Powders, Transdermals, Inhalation Aerosol Medication
- Stored Non-Retrievable/Secured-55 gallon drums containing solvent
- Hazardous Waste Incineration off site. Transported under supervision of deputized staff



La Crosse County, Wisconsin Unwanted Medicine Collection Program-Partners

- County Solid Waste Department
- Sheriff's Office
- Pharmacies
- Local Medical Center
- U.S. Fish & Wildlife

P2D2-Pontiac (Illinois) Prescription Drug Disposal Program



PONTIAC PRESCRIPTION DRUG DISPOSAL PROGRAM

Do you have unused prescription drugs?

Dispose of them properly at no cost at the following Pontiac sponsors...

**Walgreens
Wal-Mart**

**K-Mart
Sartoris Drugs**

MR. RITTER'S ECOLOGY & MR. BOHM'S ILLINOIS CLASSES PONTIAC HIGH SCHOOL

The billboard features a central cartoon character of a yellow pill bottle with a face, arms, and legs. The character is wearing green shoes and red socks, and is holding a red octagonal stop sign with the word "STOP" in white. The background of the billboard is a gradient of orange and yellow, with a large, stylized sun or moon behind the character. The text is in bold, black, sans-serif font.

P2D2 Start

- Ecology students at Pontiac Township High School put together presentations for local pharmacies, including K-mart, Sartoris Super Drugs, and Walgreens
- Pharmacies started collecting medicines from customers
- Other students started a letter writing campaign to federal, state and local officials to raise awareness and promote more collections

P2D2 Partners

- Area Pharmacies
- High School Classes-Teachers & Students
- Local Government

Results

- 12 participating pharmacies
- 9 communities-8 in the Chicago area

P2D2-Expanding program to work with law enforcement agencies and collect controlled substances.



Chicago, Illinois

Unwanted Medicine Disposal Drive

- May 31, 2006, at 25 locations in Chicagoland
- 1,600 lbs. collected and incinerated
- 1330 participants

Chicago Partners

- Police Departments
- Hospitals
- Senior Centers
- City Departments on Aging and Public Health
- TRIAD
- Illinois Attorney General's Office
- Metro Water Reclamation District
- U.S. EPA Region 5
- U.S. Dept. of Health and Human Services
- U.S. Centers for Medicare and Medicaid Services

Kendall County, Illinois

Year-round collection

- Western suburbs of Chicago
- Local Police Department collects medicines year-round since July 2, 2007
- Pharmacists sort collected materials as needed
- HHW destroys medicines
- Police destroy controlled substances

Kendall County Partners

- Yorkville Police Department
- Illinois EPA
- Osco Drugs
- Kendall County State Attorney's Office
- Illinois-Indiana Sea Grant
- Illinois County Solid Waste Management Association
- Yorkville-Bristol Sanitary District
- Radio Station WSPY
- Television Station-WAUR
- Aurora *Beacon News* and *Kendall County Record* Newspapers

Sangamon County, Illinois

Department of Public Health

- Collected at 2007 Earth Day HHW event, over 2000 participants
- Filled over seven 55 gallon drums with medications
- Participants received 'goody' bag
 - Brochure
 - Chip clip
 - Pens/pencils
 - Pill box
 - Mercury-free thermometers
 - Schedules for clinics and computer recycling information
- Volunteers from DPH, City of Springfield and U of I-Springfield students



Sangamon County Partners

- County DPH
- Illinois EPA
- Illinois Pharmacists Association
- City of Springfield
- University of Illinois-Springfield
- Illinois-Indiana Sea Grant

Indiana Department of Environmental Management-2005

- As part of Mercury Outreach Program
- Combined unwanted pharmaceuticals collection with other materials
- Long-term guidance as well as event collections
- Partners: U.S. EPA and Publicly Owned Treatment Works (POTWs)



Monroe County, Indiana (South of Indianapolis) Medical Round Up

- Begun in 2001, controlled substances are collected during one week every year. Other medicines collected year round by the household hazardous waste program, Sheriff's Department accepts controlled substances. These are incinerated.
- Collection sites include senior centers, libraries, fire stations, police stations and HHW sites.



TRIAD

Monroe & Owen Counties

Seniors, Community, Law Enforcement

Working Together for Seniors



Monroe County Partners

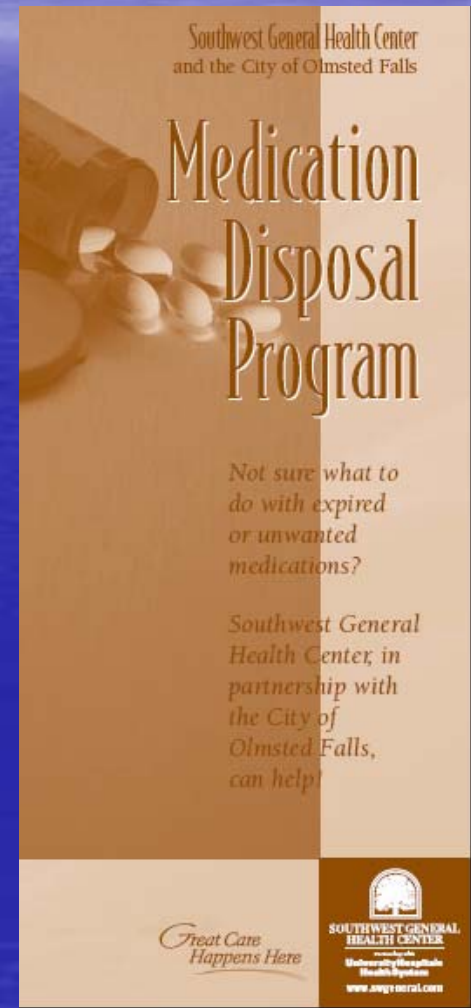
- Monroe/Own TRIAD
- Monroe County Solid Waste Management District
- Indiana State Police
- Sheriff's Department
- Local Fire Departments
- School Corporation
- Area 10 Agency on Aging
- Indiana Attorney General
- AARP
- Retired and Senior Volunteer Programs (RSVP)
- Monroe County Prosecutor's Office

Olmsted Falls, Ohio Medication Disposal Program

- Local Health Center, open 24/7, accepts all medications except controlled substances
- Medical waste hauler handles collected materials
- 28 gallon secured storage containers are used

Olmsted Falls, Ohio Medication Disposal Program- Partners

- Health Center
- City
- University Hospitals of Cleveland



Northeast Recycling Council EPA-funded Pilot Collections

- Guidance document produced
- Best Management Practices for medication containers
- Collections at
 - Pharmacies
 - Senior Centers
 - HHW









NERC Collection Partners

- Franklin County, Massachusetts, Solid Waste Management District-
Received a grant from USDA
 - Local hospital
 - Police Department
 - Hazardous waste vendor
- South Hadley, Massachusetts, Department of Public Works & Police Department
 - Local hospital
 - Recycling Program
- CVS Mill Creek, Maine
 - Police Department
 - Department of Environmental Protection
 - Hazardous Waste vendor
 - Consultant
- Wilbraham, Massachusetts
 - Health Clinic
 - Medical Professionals
 - Police Department

Alachua County, Florida Collection

- Spring 2004
- 12 locations
 - Alachua County Household Hazardous Waste Collection facility
 - Alachua County Fire Rescue Department warehouse
 - Pharmacies
 - health department clinics.
- Collected in drums containing dilute acid
- Residents deposited drugs and kept containers for disposal at home
- 500 participants deposited 305 lbs. of material







Alachua County, Florida-Partners

- Florida Dept. of Environmental Protection
- Alachua County Household Waste Collection Facility
- Fire/Rescue Personnel
- Pharmacies
- Health Department Clinics

Clark County, Washington Unwanted Medications Take Back Program

- Participating pharmacies collect medications (no controlled substances) in shipping containers
- When container is full, it is shipped to county's hazardous waste contractor for incineration.
- County pays through FedEx account
- Pharmacists can refuse material (leaking or controlled substance)
- In 2007, collected:
 - 233 lbs of controlled substances-collected by law enforcement
 - 433.5 lbs of other medications

Clark County, Washington Unwanted Medications Take Back Program

Residents are instructed by county to ask pharmacist or doctor if medicine is controlled. If yes, several local law enforcement offices will accept material. Procedures in place to secure materials for storage prior to proper destruction.



Clark County, Washington-Partners

- Pharmacies
- Sheriff Department
- Household Hazardous Waste Program
- Wastewater Pretreatment Program
- Schools
- Adult Care Centers

Washington State Pharmaceuticals from Households: A Return Mechanism (PH:ARM)

- Secured collection containers
- Secure, licensed transporters
- Witnessed incineration of the collected pharmaceuticals
- 100 locations including pharmacies and nursing homes

PH:ARM Partners

- Interagency Resource for Achieving Cooperation
- Hazardous Waste Programs
- County Solid Waste Management Department
- County Public Health Department
- Northwest Product Stewardship Council
- Citizens for Resource Conservation
- Pollution Prevention Resource Center
- Department of Social and Human Services
- Department of Ecology
- Board of Pharmacy
- Group Health Cooperative
- Bartell Drug Company
- Puget Sound Action Team
- Russell Family Foundation
- Seattle Public Utilities
- Group Health Foundation

Green Pharmacy Medicine Takeback Program



- 15 Takeback sites in Northern California
- Collected over 1/2 ton of medicines, to date
- "Drugs in Our Water" brochure
- Sponsored by Teleosis Institute, an educational nonprofit devoted to reducing the environmental impact of health care through sustainable medical practices.
- Resources website at <http://www.teleosis.org/gpp-resources.php>
- Collection Sites include pharmacies, medical facilities, dental facilities and animal hospitals

Green Pharmacy Collection Event



Bay Area, California

Bay Area Pollution Prevention Group (BAPPG) Pharmaceutical Working Group

- Goals are to develop consistent message and long term strategy for residential pharmaceutical management
- Safe Medicine Disposal Week
 - 59 collection events
 - 39 locations including Walgreens, City Hall and Senior Centers
- BAPPG made up of 39 WWTP from 9 Bay area counties

Bay Area Program Partners

- BAPPG
- Walgreens
- Central Marin Sanitation Agency
- San Rafael Fire Department
- Marin County Stormwater Pollution Prevention Program
- Marin County Hazardous and Solid Waste Program

Bay Area Overview (continued)

- 23 agencies and organizations participated
- 38 collection events regionally
- 3,685 pounds collected from ~1500 residents
 - 9% controlled substances (median)





samTrans

We WOULDN'T
take for your family's safety for the day

Safe Medicine Disposal Days

DO NOT
put in the trash

San Mateo County Health Department
1000 S. Elgin Ave., Suite 100
San Mateo, CA 94402
(650) 353-3300
www.sanmateohealth.org

Safe Medicine Disposal Days are held on the following dates:
April 10, 17, 24, 30, May 7, 14, 21, 28, June 4, 11, 18, 25, July 2, 9, 16, 23, 30, August 6, 13, 20, 27, September 3, 10, 17, 24, October 1, 8, 15, 22, 29, November 5, 12, 19, 26, December 3, 10, 17, 24, 31

For more information, visit www.sanmateohealth.org/smd

SAN MATEO COUNTY

2011 YOU! DAY
Safe Medicine Disposal Day
Safe For you, family, water, birds & us.

It's time to get rid of your old medicine safely. Bring your unused medicine to the event and we'll dispose of it for you. It's free and easy.

2011 YOU! DAY
Safe Medicine Disposal Day

2011 YOU! DAY

2011 YOU! DAY

2011 YOU! DAY

2011 YOU! DAY

2011 YOU! DAY

2011 YOU! DAY

Los Angeles Education Effort “No Drugs Down the Drain”

- Effort to keep residents from flushing medications
- 3.7 million 2-sided, bi-lingual post cards mailed out and distributed.
 - Includes information about problems with flushing
 - Alternatives to flushing: HHW and solid waste disposal
 - Sent during National Poison Prevention Week, 2006
 - Handed out with prescriptions at pharmacies

NO DRUGS DOWN THE DRAIN



Unused prescription and over-the-counter medications that are put in drains or flushed down the toilet pollute the environment, so please take as prescribed and dispose of unused portions properly.

www.nodrugsdownthedrain.org

UNUSED MEDICATIONS SHOULD BE

1

Taken to a household hazardous waste collection center or event (no controlled substances allowed) or

2

Put in a sturdy, securely sealed container, then in a trash can where children and animals can't reach them.



In case of overdose or accidental poisoning, call the poison center at
1-800-222-1222
24 hours/day



NO TIRE MEDICAMENTOS EN EL DESAGÜE



Todo medicamento recetado o no recetado que sea desechado en el desagüe, lavabo o excusado, contamina el medio ambiente. Tome sus medicamentos como recetados por su doctor, y favor de deshacerse de medicamentos no utilizados de la manera apropiada.

www.nodrugsdownthedrain.org

LOS MEDICAMENTOS NO UTILIZADOS SE DEBEN

1

Llevar a un evento o centro para la recolección de desechos domésticos peligrosos (sustancias controladas no serán permitidas), o

2

Poner dentro de un recipiente resistente, sellar y tirar a la basura fuera del alcance de niños y animales.



En caso de sobredosis o envenenamiento accidental, llame al centro de envenenamientos al 1-800-222-1222 las 24-horas



No Drugs Down the Drain

Partners

- City of Los Angeles and over 20 other cities in the vicinity
- Sanitation Districts in Los Angeles and Orange Counties
- California Pharmacists Association
- California Poison Control Systems
- Utility Companies
- Senior Centers
- Schools
- County Public Works
- County Health Services
- Waste Management Agency
- Water District



“The major concerns to date... have been increased bacterial resistance to antibiotics and interference with growth and reproduction in aquatic organisms the level... the level of risk to humans and the environment is still being determined.”

Hospitals for a Healthy Environment (H2E)

- American Hospital Association
- U.S. Environmental Protection Agency
- Health Care Without Harm
- American Nurses Association
- Health Care Facilities, nation-wide
- Created “Managing Pharmaceutical Waste: A 10-step Blueprint for Health Care Facilities in the United States” on-line and in paper copy

Product Stewardship Institute

- Members are government representatives
- Facilitate Dialogs
- Bring stakeholders together
- Focus on household and long-term care facility unwanted medicines

Contact:

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www.michigan.gov/deqrecycling